

Iván Felipe Calvo Pérez

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Student

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Education

- **Tecnológico de Costa Rica**

Computer Science Bachelor

Cartago, Costa Rica

2015 - present

- Department of Computer Science
- Emphasis on computer science and software development
- Average GPA 77.96(out of 100)
- Expected graduation date: first half of 2019

Technical Experience

- **Courses:**

- **Compilers & Interpreters:** As a course project, I developed the scanner(using an **FSA**, know as **automata**), parser, semantic analyzer, semantics, equivalent TASM code of a language called **Kaplá**, based on the language **Klingon** from the **Star Trek** series.
- **Databases II:** As a course project, my classmates and I developed a **data-warehouse** using MySQL, MongoDB, SQL Server, excel and text files as a data sources, then we used the visual studio 2013 ETL(Extract and Load) tool to migrate the data to the data-warehouse(SQL Database).
We also used techniques like replication(SQL, MySQL and MongoDB) and sharding(MongoDB).
- **Operating Systems:** As a course project, I developed a C application, focused on the use of shared memory and semaphores, making use of the algorithms of paging and segmentation.
- **OOP:** As a course project, I developed a **Bomberman game** in Java in my second semester.
- **Databases I:** As a course project, I developed a NodeJS web application, using SQL Server as a database.

- **Real life solutions:**

- I developed a Java application for my dad called EasyMail, that facilitates the email sending process.

- **Workshops:**

- A classmate and I gave a workshop called "Introduction to Raspberry-Pi" in COMPDES 2016.

Tutorings, teaching assistantships and others

- Tutor, Introduction to Programming course, 1st year students (2017 - present)

- Teacher, PAMTEC (teaching technology to senior citizens), Tecnológico de Costa Rica (2017 - present)
- Teaching Assistant, Object Oriented Programming, first and second year students (2016)
- Student Representative, Computer Science department (2015)

Technical Skills

- **Programming languages and hipertext-markup languages**
 - Python, NodeJS, C# , Java, C, C++ , JavaScript, SQL, MongoDB, Assembler 80x86, HTML, CSS
- **Microchips knowledge**
 - Arduino and Raspberry-Pi

Languages

- Spanish(Native language)
- English(Intermediate 70%)